

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
DECLARATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents
 Washington, D.C. 20231

As a below-named inventor, I hereby declare that I believe I am:

- the original, first and sole inventor; or
 an original, first and joint inventor along with the other inventors listed below, of the subject matter which is

claimed and for which a patent is sought on the invention entitled

POLYNUCLEOTIDE VACCINE FORMULATIONS

the specification of which is attached hereto;

was filed on July 9, 1998 as Application
 Serial No. 09/112,655 and was amended
 through _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended as indicated above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate for the same invention having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

Country	Number	Date Filed	Attorney Docket		

Yes No

Country	Number	Date Filed	Attorney Docket

Yes No

Prior United States Filing

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

60/038,194	February 14, 1997	19907PV
Appln. Ser. No.	Filing Date	Attorney Docket
09/023,834	February 13, 1998	19907Y
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date(s) of the prior application(s) and the national or PCT international filing date of this application:

Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket

And I hereby appoint

J. MARK HAND

Reg. No. 36,545

JACK L. TRIBBLE

Reg. No. 32,633

Reg. No. _____

respectively and individually, as my attorneys or agents with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Please address all communications to:

J. MARK HAND

Patent Department

Merck & Co., Inc.

P.O. Box 2000

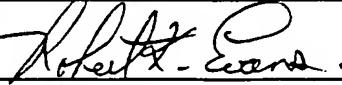
Rahway, NJ 07065-0907

Telephone No. (732) 594- 3905

DECLARATION AND POWER OF ATTORNEY

PATENT Case No. 19907YIA

I hereby declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or joint inventor	DAVID B. VOLKIN	Full name of joint inventor	ROBERT K. EVANS
Inventor's Signature		Inventor's Signature	
Date	15 September 1998	Date	15 Sept 98
Residence	DOYLESTOWN, PA 18901	Residence	SOUDEERTOWN, PA 18964
Citizenship	U.S.	Citizenship	U.S.
Post Office Address (if different from above)	MERCK & CO., INC. P O BOX 2000 RAHWAY, NEW JERSEY 07065	Post Office Address (if different from above)	MERCK & CO., INC. P O BOX 2000 RAHWAY, NEW JERSEY 07065

Full name of joint inventor	JEFFREY B. ULMER	Full name of joint inventor	MICHAEL J. CAULFIELD
Inventor's Signature		Inventor's Signature	
Date		Date	15 - Sept. 98
Residence	CHALFONT, PA 18914	Residence	NORTH WALES, PA 19454
Citizenship	CANADA	Citizenship	U.S.
Post Office Address (if different from above)	MERCK & CO., INC. P O BOX 2000 RAHWAY, NEW JERSEY 07065	Post Office Address (if different from above)	MERCK & CO., INC. P O BOX 2000 RAHWAY, NEW JERSEY 07065

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
DECLARATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents
 Washington, D.C. 20231

As a below-named inventor, I hereby declare that I believe I am:

- the original, first and sole inventor; or
 an original, first and joint inventor along with the other inventors listed below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

POLYNUCLEOTIDE VACCINE FORMULATIONS

the specification of which is attached hereto;

was filed on July 9, 1998 as Application
 Serial No. 09/112,655 and was amended
 through _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended as indicated above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate for the same invention having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Country	Number	Date Filed	Attorney Docket
Country	Number	Dat Filed	Attorn y Dock t

Priority Claimed

<input type="checkbox"/>	<input type="checkbox"/>
Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
Yes	No

Prior United States Filing

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

60/038,194	February 14, 1997	19907PV
Appln. Ser. No.	Filing Date	Attorney Docket
09/023,834	February 13, 1998	19907Y
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date(s) of the prior application(s) and the national or PCT international filing date of this application:

Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket

And I hereby appoint

J. MARK HAND

JACK L. TRIBBLE

Reg. No. 36,545

Reg. No. 32,633

Reg. No. _____

respectively and individually, as my attorneys or agents with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Please address all communications to:

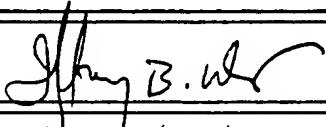
J. MARK HAND
Patent Department
Merck & Co., Inc.
P.O. Box 2000
Rahway, NJ 07065-0907

Telephone No. (732) 594- 3905

I hereby declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or joint inventor	DAVID B. VOLKIN
Inventor's Signature	
Date	
Residence	DOYLESTOWN, PA 18901
Citizenship	U.S.
Post Office Address (if different from above)	MERCK & CO., INC. P O BOX 2000 RAHWAY, NEW JERSEY 07065

Full name of joint inventor	ROBERT K. EVANS
Inventor's Signature	
Date	
Residence	SOUDEERTOWN, PA 18964
Citizenship	U.S.
Post Office Address (if different from above)	MERCK & CO., INC. P O BOX 2000 RAHWAY, NEW JERSEY 07065

Full name of joint inventor	JEFFREY B. ULMER
Inventor's Signature	
Date	9/23/98
Residence	DANVILLE, CA 94506
Citizenship	CANADA
Post Office Address (if different from above)	MERCK & CO., INC. P O BOX 2000 RAHWAY, NEW JERSEY 07065

Full name of joint inventor	MICHAEL J. CAULFIELD
Inventor's Signature	
Date	
Residence	NORTH WALES, PA 19454
Citizenship	U.S.
Post Office Address (if different from above)	MERCK & CO., INC. P O BOX 2000 RAHWAY, NEW JERSEY 07065